

Water Management

Buena Vista County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6: Okoboji-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.83	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
27C: Terril-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.56	Very limited Deep to water	1.00
31: Afton-----	Somewhat limited Seepage	0.57	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.43 0.10
32: Spicer-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.95	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
34B: Estherville-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
34C2: Estherville-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.98	Very limited Deep to water	1.00
55: Nicollet-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.02 0.01	Somewhat limited Deep to water Slow refill Cutbanks cave	0.68 0.30 0.10
62C: Storden-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
62D: Storden-----	Somewhat limited Seepage Slope	0.70 0.01	Very limited Piping	1.00	Very limited Deep to water	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Buena Vista County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
62E: Storden-----	Somewhat limited		Very limited		Very limited	
	Seepage	0.70	Piping	1.00	Deep to water	1.00
	Slope	0.04				
62F: Storden-----	Somewhat limited		Very limited		Very limited	
	Seepage	0.70	Piping	1.00	Deep to water	1.00
	Slope	0.18				
62G: Storden-----	Somewhat limited		Very limited		Very limited	
	Seepage	0.70	Piping	1.00	Deep to water	1.00
	Slope	0.64				
73C: Salida-----	Very limited		Very limited		Very limited	
	Seepage	1.00	Seepage	1.00	Deep to water	1.00
73D: Salida-----	Very limited		Very limited		Very limited	
	Seepage	1.00	Seepage	1.00	Deep to water	1.00
	Slope	0.01				
77B: Sac-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.46	Deep to water	1.00
77C2: Sac-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.46	Deep to water	1.00
78B: Sac-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.49	Deep to water	1.00
78C2: Sac-----	Somewhat limited		Not limited		Very limited	
	Seepage	0.70			Deep to water	1.00
91: Primghar-----	Somewhat limited		Not limited		Somewhat limited	
	Seepage	0.70			Deep to water	0.81
					Slow refill	0.30
					Cutbanks cave	0.10

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Buena Vista County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
91B: Primghar-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
92: Marcus-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
95: Harps-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
107: Webster-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.02	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
108: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
108B: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
108C2: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
133: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
138B: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00
138C2: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Deep to water	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Buena Vista County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
138D2: Clarion-----	Somewhat limited		Very limited		Very limited	
	Seepage	0.70	Piping	1.00	Deep to water	1.00
	Slope	0.01				
175B: Dickinson-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Seepage	0.95	Deep to water	1.00
202: Cylinder-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Seepage	0.85	Cutbanks cave	1.00
			Depth to saturated zone	0.43	Deep to water	0.25
203: Cylinder-----	Very limited		Somewhat limited		Very limited	
	Seepage	1.00	Seepage	0.85	Cutbanks cave	1.00
			Depth to saturated zone	0.43	Deep to water	0.25
236F: Lester-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.17	Deep to water	1.00
	Slope	0.18				
236G: Lester-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.17	Deep to water	1.00
	Slope	0.64				
250B: Clarion-----	Somewhat limited		Somewhat limited		Very limited	
	Seepage	0.70	Piping	0.99	Deep to water	1.00
251: Nicollet-----	Somewhat limited		Somewhat limited		Somewhat limited	
	Seepage	0.70	Depth to saturated zone	0.02	Deep to water	0.68
			Piping	0.01	Slow refill	0.30
					Cutbanks cave	0.10
259: Biscay-----	Very limited		Very limited		Very limited	
	Seepage	1.00	Depth to saturated zone	1.00	Cutbanks cave	1.00
			Seepage	0.91		

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Buena Vista County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
274: Rolfe-----	Somewhat limited Seepage	0.57	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
308B: Wadena-----	Very limited Seepage	1.00	Somewhat limited Seepage	1.00	Very limited Deep to water	1.00
310: Galva-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Deep to water	1.00
310B: Galva-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Deep to water	1.00
310C2: Galva-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Deep to water	1.00
354: Marsh-----	Not rated		Not rated		Not rated	
384: Collinwood-----	Somewhat limited Seepage	0.01	Somewhat limited Hard to pack Depth to saturated zone	0.10 0.09	Somewhat limited Slow refill Deep to water Cutbanks cave	0.99 0.54 0.10
384B: Collinwood-----	Somewhat limited Seepage	0.01	Somewhat limited Hard to pack Depth to saturated zone	0.10 0.09	Somewhat limited Slow refill Deep to water Cutbanks cave	0.99 0.54 0.10
384C: Collinwood-----	Somewhat limited Seepage	0.01	Somewhat limited Hard to pack Depth to saturated zone	0.10 0.09	Somewhat limited Slow refill Deep to water Cutbanks cave	0.99 0.54 0.10

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Buena Vista County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
390: Waldorf-----	Somewhat limited Seepage	0.43	Very limited Depth to saturated zone Hard to pack	1.00 0.09	Somewhat limited Slow refill Cutbanks cave	0.43 0.10
428B: Ely-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone Piping	0.43 0.17	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
485: Spillville-----	Very limited Seepage	1.00	Somewhat limited Piping	0.75	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
485B: Spillville-----	Very limited Seepage	1.00	Somewhat limited Piping	0.75	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
501: Gravel Pits-----	Not rated		Not rated		Not rated	
504: Fill Land-----	Not rated		Not rated		Not rated	
506: Wacousta-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.94	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
507: Canisteo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.28	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Buena Vista County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
511: Blue Earth-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.91	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
558: Talcot-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.91	Very limited Cutbanks cave	1.00
559: Talcot-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.91	Very limited Cutbanks cave	1.00
577B: Everly-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.26	Very limited Deep to water	1.00
577C: Everly-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.26	Very limited Deep to water	1.00
577C2: Everly-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.26	Very limited Deep to water	1.00
585B: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Spillville-----	Very limited Seepage	1.00	Somewhat limited Piping	0.75	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
606: Lanyon-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

FIELD OFFICE TECHNICAL GUIDE Sec. II
ENGINEERING INTERPRETATIONS

Water Management

Buena Vista County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
733: Calco-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.02	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
C458: Millington-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping Seepage	1.00 0.67 0.06	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
C585: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Spillville-----	Very limited Seepage	1.00	Somewhat limited Piping	0.75	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
T310: Galva-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Deep to water	1.00